

Survey of the Moths (Lepidoptera) Inhabiting the Funk Bottoms Wildlife Area, Wayne and Ashland Counties, Ohio¹

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ABSTRACT. In 1995, the Funk Bottoms Wildlife Area was the subject of an ongoing series of insect surveys intended to establish benchmark information on arthropod diversity of wetlands in northeast Ohio. This article concentrates on the moths which were collected at ultraviolet light traps within the Funk Bottoms Wildlife Area. A companion report will follow focusing on the Coleoptera along with several orders of aquatic insects. 3252 specimens were identified to 306 species in 19 families. These species are classified as follows: Abundant = 34; Locally Abundant = 1; Common = 257; Locally Common = 2; Uncommon = 10; Rare = 1; and Special Interest = 1.

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INTRODUCTION

The Funk Bottoms Wildlife Area was founded in 1991 with the initial purchase of land. The fact that this Wildlife Area is so new only magnifies the importance of understanding the species existing there and what effect environmental changes might have upon them. This Wildlife Area currently consists of 467 ha which will be expanded as funds and lands become available. It is located approximately 13 km west-southwest of Wooster and lies between Blachleyville (Wayne County) and Lake Fork (Ashland County), Ohio, bisected by State Route 95.

In 1995, the Funk Bottoms Wildlife Area was the subject of an ongoing series of insect surveys intended to establish benchmark information on diversity of wetlands in northeast Ohio. The Ohio Department of Natural Resources (ODNR), Division of Wildlife chose this area because of its quality wetland habitat and the associated wildlife species found here. A variety of nesting and migrant birds occupy this area. The first recorded nesting of the state-endangered sandhill crane in over 60 years was confirmed in the area in 1988. The insects of the Funk Bottoms have never been studied, and because insects are the most abundant of all animals, this project is important as this area begins to revert back to a wetland. During 1993 and 1994, similar surveys were conducted in the Killbuck Marsh Wildlife Area (Williams et al. 1994, 1995). As a result, nearly 1,000 insect species were collected, identified by specialists, and catalogued for future reference.

The Wildlife Area consists of moderately rolling topography within the Muskingum Watershed Conservancy District in the glaciated central hills region of central Ohio. Most of the wildlife area is periodically-flooded, moist soil meadows, and bottomland hardwoods. Area flooding is controlled by the Mohicanville "Dry" Dam, built in 1936, and maintained by the U. S.

Army Corps of Engineers. All the land behind the dam, below an elevation of 294 m, is under flood easement. As a result, 3560 ha, including the Funk Bottoms Wildlife Area, make up this wetland. There is relatively little area (around 80 ha) of permanently wet soils (marsh) within the easement area. However, hundreds to thousands of hectares may be inundated for periods of days to several months at any time of the year depending on rainfall and the need to control down stream flooding within the Watershed District. Most of the private lands in this region consist of row crops, pasture or woodlots.

This report concentrates on the moths which were collected at ultraviolet light traps. Another report will follow focusing on the Coleoptera and aquatic insects from several orders.

MATERIALS AND METHODS

Two sites were selected within the main section of the current Wildlife Area, just southeast of Funk, off State Route 95. The first site is located adjacent to a house on the area headquarters within a rather steep-sloping woodlot facing the wetland. This site, designated "House" in our collections, is approximately 3 m higher in elevation than a nearby flood easement marker. The wooded House site is near a large barn, a natural spring which feeds an adjacent 0.6 ha pond, and is bordered by a large, maintained turf area (yard), and an adjacent pasture. The second site, called "Ditch", is surrounded by wetland and, in recent years, was flooded throughout the winter months and early spring, depending on the Mohicanville Dam water level. The Ditch site is next to the Kiser Ditch, a permanent, dredged, slow-flowing, shallow waterway which drains into the Muddy Fork of the Lake Fork of the Mohican River. These two sites represent a broad range of ecological niches and should yield the greatest diversity of this relatively small wetland.

Two sets of blacklight traps were used throughout this survey. One light trap was set out at each site (House and Ditch) on April 12, 1995, and collections were made weekly through November 6, 1995, when they were

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removed. Each week the light trap batteries were recharged and engaged in the late afternoon for an overnight run, and trapped specimens were collected the following morning. A Vapona strip and a small, slow release vial of chloroform were used as killing agents to prevent large insects such as May beetles (*Phyllophaga*) and strong moths from destroying fragile specimens. Upon removal, insects were frozen until they could be separated and identified.

For the Funk Bottoms Wildlife Area, the moth species were classified within derived categories of abundance. The categories include: "Abundant" designates species where annual collections exceed 50 specimens; "Locally Abundant" indicates only certain localities; "Common" designates annual collections of more than 11 specimens; "Locally Common" indicates only certain localities; "Uncommon" is used to describe species represented by

3 to 10 specimens collected annually. If only 1 or 2 specimens are collected annually, the species is designated "Rare." Special Interest species may be local, very rare, or Ohio is on the extreme edge of its natural, geographic range making it vulnerable to identifiable threats.

RESULTS AND DISCUSSION

A total of 3252 specimens was collected in 1995 which has been identified to 306 species in 19 families. All moth species identified are listed in Table 1. The 306 moth species collected from the Funk Bottoms in 1995 are classified as follows: Abundant = 34; Locally Abundant = 1; Common = 257; Locally Common = 2; Uncommon = 10; Rare = 1; and Special Interest = 1. These categorizations are listed below each species as well as their respective Moths of North America (MONA) number and collection

Table 1

A list of the Lepidoptera captured in the Funk Bottoms Wildlife Area in 1995.¹

APATELODIDAE	<i>Crambus leachellus</i> (Zinck)	C, 7146, 05/24 - 10/23/95
<i>Apatelodes torrefacta</i> (J. E. Smith)	C, 5357, 05/07/95	<i>Hydriomena transfigurata</i> Swett
C, 7663, 07/12/95	<i>Crambus saltuellus</i> Zeller	C, 7237, 05/07 - 05/24/95
ARCTIIDAE	C, 5363, 05/07/95	<i>Hypagyrtis unipunctata</i> (Haworth)
<i>Apantesis phalerata</i> (Harris)	<i>Pediasia trisecta</i> (Walker)	C, 6654, 05/07 - 06/21/95
C, 8169, 05/07 - 09/20/95	C, 5413, 07/27 - 08/30/95	<i>Iridopsis larvaria</i> (Guenée)
<i>Cisseps fulvicollis</i> (Hübner)	DREPANIDAE	C, 6588, 05/24 - 07/27/95
A, 8267, 06/25 - 10/23/95	<i>Oreta rosea</i> (Walker)	<i>Itame coortaria</i> (Hulst)
<i>Cycnia tenera</i> Hübner	C, 6255, 06/21 - 07/27/95	A, 6299, 06/21/95
C, 8230, 06/21 - 08/30/95	GEOMETRIDAE	<i>Itame pustularia</i> (Guenée)
<i>Estigmene acrea</i> (Drury)	<i>Anavitrinella pampinaria</i> (Guenée)	C, 6273, 07/27/95
C, 8131, 05/17 - 07/27/95	C, 6590, 05/07 - 08/09/95	<i>Itame subcessaria</i> (Walker)
<i>Euchaetes egle</i> (Drury)	<i>Antepione thisoaria</i> (Guenée)	C, 6303, 07/19/95
C, 8238, 07/12 - 07/19/95	C, 6987, 05/24/95	<i>Lambdina fervidaria atbasaria</i> (Walker)
<i>Grammia virgo</i> (L.)	<i>Anticlea vasiliata</i> Guenée	C, 6894, 05/24/95
C, 8197, 07/27/95	C, 7329, 05/17/95	<i>Lytrosis unitaria</i> (Herrich-Schäffer)
<i>Halysidota tessellaris</i> (J. E. Smith)	<i>Besma quercivoraria</i> (Guenée)	C, 6720, 07/05/95
A, 8203, 06/21 - 07/27/95	C, 6885, 05/31/95	<i>Melanolophia canadaria</i> (Guenée)
<i>Haploa confusa</i> (Lyman)	<i>Biston betularia cognataria</i> (Guenée)	C, 6620, 05/17 - 08/30/95
C, 8112, 07/12 - 07/19/95	C, 6640, 08/09/95	<i>Mellilla xanthometata</i> (Walker)
<i>Haploa lecontei</i> (Guérin-Ménéville)	<i>Calothysanis amaturaria</i> (Walker)	C, 6322, 07/12 - 08/30/95
C, 8111, 07/12 - 07/27/95	C, 7147, 07/27 - 08/30/95	<i>Metarranthis hypochraria</i> (Herrich-Schäffer)
<i>Hyphantria cunea</i> (Drury)	<i>Campaea perlata</i> (Guenée)	C, 6826, 05/07 - 05/24/95
A, 8140, 05/07 - 08/30/95	C, 6796, 06/21 - 09/20/95	<i>Nemoria bistriaria</i> Hübner
<i>Hypoprepia fucosa</i> Hübner	<i>Coryphista meadli</i> (Packard)	C, 7046, 07/19 - 09/20/95
C, 8090, 07/27/95	U, 7290, 05/24/95	<i>Nemoria mimosaria</i> (Guenée)
<i>Lophocampa caryae</i> Harris	<i>Costaconvexa centrostrigaria</i> (Wollaston)	C, 7048, 05/31/95
C, 8211, 05/07 - 05/31/95	C, 7416, 05/17 - 08/09/95	<i>Orthonama obstipata</i> (F.)
<i>Phragmatobia fuliginosa rubricosa</i> (Harris)	<i>Ecliptopera atricolorata</i> (Grote & Robinson)	C, 7414, 09/20/95
C, 8156, 07/19 - 08/30/95	U, 7214, 07/19/95	<i>Pero honestaria</i> (Walker)
<i>Pyrrharctia isabella</i> (J. E. Smith)	<i>Ennomos magnaria</i> Guenée	C, 6753, 05/17 - 08/09/95
C, 8129, 08/30/95	C, 6797, 10/16/95	<i>Pero hübneraria</i> (Guenée)
<i>Spilosoma latipennis</i> Stretch	<i>Euchlaena johnsonaria</i> (Fitch)	C, 6754, 05/07 - 07/19/95
C, 8133, 06/21/95	C, 6729, 06/21/95	<i>Plagodis alcoolaria</i> (Guenée)
<i>Spilosoma virginica</i> (Fabricius)	<i>Eulithis diversilineata</i> (Hübner)	C, 6844, 05/31 - 07/27/95
A, 8137, 05/07 - 10/23/95	C, 7196, 09/20 - 10/23/95	<i>Plagodis serinaria</i> Herrich-Schäffer
CRAMBIDAE	<i>Eupithecia miserulata</i> Grote	C, 6840, 05/31/95
<i>Chrysoteuchia topiaria</i> (Zeller)	C, 7474, 08/23 - 08/30/95	<i>Pleuroprucha insulsaria</i> (Guenée)
C, 5391, 06/21 - 07/12/95	<i>Eusarca confusaria</i> Hübner	A, 7132, 10/23/95
<i>Crambus agitatellus</i> Clemens	C, 6941, 07/12 - 08/30/95	<i>Probole alienaria nyssaria</i> (Guenée)
C, 5362, 06/21 - 07/19/95	<i>Haematopsis grataria</i> (F.)	C, 6837.1, 05/07/95
		<i>Probole amicararia</i> (Herrich-Schäffer)
		C, 6838, 05/31/95

TABLE 1 *Continued*

<i>Prochoerodes transversata</i> (Drury)	C, 9272, 07/27/95	<i>Condica vecors</i> (Guenée)
A, 6982, 07/12 - 10/23/95	<i>Agrotis gladiaria</i> Morrison	C, 9696, 05/07 - 07/27/95
<i>Scopula limboundata</i> (Haworth)	C, 10648, 08/30 - 10/05/95	<i>Condica videns</i> (Guenée)
C, 7159, 07/12 - 08/30/95	<i>Agrotis ipsilon</i> (Hufnagel)	C, 9690, 07/19 - 09/20/95
<i>Semiothisa aemulataria</i> (Walker)	A, 10663, 05/07 - 10/23/95	<i>Crambodes talidiformis</i> Guenée
C, 6326, 05/24 - 05/31/95	<i>Agrotis venerabilis</i> Walker	C, 9661, 05/07/95
<i>Synchlora aerata</i> (F.)	C, 10651, 09/20/95	<i>Crocigrapha normani</i> (Grote)
C, 7058, 09/20 - 10/23/95	<i>Aletia oxygala</i> (Grote)	C, 10501, 04/19 - 08/30/95
<i>Tetracis cachexiata</i> Guenée	A, 10436, 05/07 - 10/23/95	<i>Cucullia asteroides</i> Guenée
C, 6964, 05/07/95	<i>Allagrapha aerea</i> (Hübner)	C, 10200, 07/27/95
<i>Tetracis crocallata</i> Guenée	C, 8898, 06/21 - 10/23/95	<i>Cucullia lucifuga</i> (Denis & Schiffermuller)
C, 6963, 05/07 - 08/09/95	<i>Amphipoea americana</i> (Speyer)	C, 10194, 08/30/95
<i>Xanthorhoe ferrugata</i> (Clemens)	C, 9457, 07/27/95	<i>Diachrysia balluca</i> Geyer
C, 7388, 05/24 - 09/20/95	<i>Amphipyra pyramidoides</i> Guenée	C, 8897, 08/30 - 09/20/95
<i>Xanthorhoe lacustrata</i> (Guenée)	A, 9638, 07/19 - 10/23/95	<i>Enargia decolor</i> (Walker)
C, 7390, 07/12 - 08/30/95	<i>Anagrapha falcifera</i> (Kirby)	R-SI, 9549, 08/30/95
<i>Xanthotype urticaria</i> Swett	C, 8924, 05/17 - 08/30/95	<i>Eosphoropteryx thyatyroides</i> (Guenée)
C, 6740, 05/07 - 10/23/95	<i>Anorthodes tarda</i> (Guenée)	U, 8905, 10/23/95
LASIOCAMPIDAE	C, 9650, 05/07 - 08/09/95	<i>Eudryas grata</i> (F.)
<i>Phyllodesma americana</i> (Harris)	<i>Athetis miranda</i> (Grote)	C, 9301, 07/05 - 07/19/95
C, 7687, 07/12/95	C, 9647, 08/30 - 09/20/95	<i>Euplexia benesimilis</i> McDunnough
<i>Tolyte velleda</i> (Stoll)	<i>Autographa precatationis</i> (Guenée)	C, 9545, 05/07/95
C, 7670, 09/20/95	C, 8908, 05/24 - 08/30/95	<i>Eupsilia morrisoni</i> (Grote)
<i>Malacosoma</i> sp.	<i>Balsa labecula</i> (Grote)	A, 9936, 04/19/95
—, ———, 07/05/95	C, 9664, 05/07/95	<i>Eupsilia vinulenta</i> (Grote)
LIMACODIDAE	<i>Balsa tristrigella</i> (Walker)	C, 9933, 04/19/95
<i>Apoda y-inversum</i> (Packard)	C, 9663, 06/21/95	<i>Faronta diffusa</i> (Walker)
C, 4667, 07/12/95	<i>Bellura densa</i> (Walker)	C, 10431, 05/24 - 08/09/95
<i>Packardia geminata</i> (Packard)	C, 9526, 07/27/95	<i>Feltia herilis</i> (Grote)
C, 4659, 05/07 - 06/21/95	<i>Bellura obliqua</i> (Walker)	C, 10676, 07/27 - 08/09/95
<i>Parasa chloris</i> (Herrich-Schäffer)	C, 9525, 07/27/95	<i>Feltia jaculifera</i> (Guenée)
C, 4698, 07/19/95	<i>Bomolocha abalienalis</i> (Walker)	C, 10670, 08/30 - 10/23/95
<i>Prolimacodes badia</i> (Hübner)	C, 8445, 05/24/95	<i>Feltia subgothica</i> (Haworth)
C, 4671, 07/19/95	<i>Bomolocha madefactalis</i> (Guenée)	A, 10674, 07/27 - 10/23/95
<i>Tortricidia testacea</i> Packard	C, 8447, 07/19 - 08/09/95	<i>Feltia tricola</i> (Lintner)
C, 4652, 06/21/95	<i>Caenurgina crassiuscula</i> (Haworth)	C, 10675, 08/23 - 10/23/95
LYMANTRIIDAE	A, 8738, 04/19 - 10/23/95	<i>Galgula partita</i> Guenée
<i>Dasychira basiflava</i> (Packard)	<i>Catocala amatrix</i> (Hübner)	C, 9688, 10/23/95
C, 8296, 07/27/95	C, 8834, 09/20/95	<i>Helicoverpa zea</i> (Boddie)
<i>Orgyia definita</i> Packard	<i>Catocala cara</i> Guenée	A, 11068, 09/20 - 10/23/95
A, 8314, 08/30 - 09/20/95	C, 8832, 08/30 - 09/20/95	<i>Heptagrotis phyllophora</i> (Grote)
<i>Orgyia leucostigma</i> (J. E. Smith)	<i>Catocala concumbens</i> Walker	C, 11010, 08/30/95
A, 8316, 08/23 - 10/23/95	C, 8833, 10/16/95	<i>Homophoberia apicosa</i> (Haworth)
MIMALLONIDAE	<i>Catocala crataegi</i> Saunders	LC, 9057, 05/07 - 09/20/95
<i>Cicinnus melsheimeri</i> (Harris)	C, 8858, 07/27/95	<i>Homophoberia cristata</i> Morrison
U, 7662, 06/21/95	<i>Catocala ilia</i> (Cramer)	C, 9056, 05/07 - 08/30/95
NOCTUIDAE	C, 8801, 07/27/95	<i>Hydraecia immanis</i> Guenée
<i>Abagrotis alternata</i> (Grote)	<i>Catocala neogama</i> (J. E. Smith)	LC, 9513, 10/23/95
C, 11029, 07/05 - 10/23/95	C, 8798, 08/30 - 10/23/95	<i>Hyppa xylinoides</i> (Guenée)
<i>Abrostola urentis</i> Guenée	<i>Catocala palaeogama</i> Guenée	C, 9578, 07/27 - 09/20/95
C, 8881, 05/24 - 09/20/95	C, 8795, 07/27/95	<i>Idia aemula</i> Hübner
<i>Achatodes zaeae</i> (Harris)	<i>Catocala piatrix</i> Grote	C, 8323, 06/21 - 10/23/95
C, 9520, 07/19/95	C, 8771, 09/20/95	<i>Idia americalis</i> (Guenée)
<i>Acronicta americana</i> (Harris)	<i>Catocala relecta</i> Grote	C, 8322, 05/07 - 10/23/95
C, 9200, 07/05 - 07/27/95	C, 8788, 10/23/95	<i>Idia lubricalis</i> (Geyer)
<i>Acronicta baesitata</i> (Grote)	<i>Catocala ultronis</i> (Hübner)	C, 8334, 06/21 - 07/27/95
C, 9245, 05/24 - 07/19/95	C, 8857, 07/27/95	<i>Lacanobia subjuncta</i> (Grote & Robinson)
<i>Acronicta basta</i> Guenée	<i>Catocala unijuga</i> Walker	C, 10299, 05/24/95
C, 9229, 06/21 - 07/27/95	C, 8805, 07/12/95	<i>Lacinipolia lorea</i> (Guenée)
<i>Acronicta morula</i> Grote & Robinson	<i>Celaena reniformis</i> (Grote)	C, 10405, 05/07 - 08/30/95
C, 9236, 05/07/95	C, 9453, 08/30/95	<i>Lacinipolia meditata</i> (Grote)
<i>Acronicta oblituta</i> (J. E. Smith)	<i>Cerastis tenebrifera</i> (Walker)	C, 10368, 09/20/95
	C, 10994, 04/19/95	<i>Lacinipolia renigera</i> (Stephens)
	<i>Cerma cerintha</i> (Treitschke)	A, 10397, 05/07 - 10/23/95
	C, 9062, 05/07 - 06/25/95	<i>Ledaeva perditalis</i> (Walker)
	<i>Colocasia propinquilinea</i> (Grote)	C, 8491, 07/27/95
	C, 9185, 05/07 - 05/31/95	<i>Leucania lapidaria</i> (Grote)

TABLE 1 *Continued*

C, 10446.1, 06/21 - 10/23/95	<i>Papaipema eupatorii</i> (Lyman)	C, 9725, 06/21 - 08/09/95
<i>Leucania linda</i> Franclemont	C, 9501, 09/20 - 10/23/95	<i>Sunira bicolorago</i> (Guenée)
C, 10445, 05/17 - 09/20/95	<i>Papaipema furcata</i> (Smith)	A, 9957, 10/05/95
<i>Leucania multilinea</i> Walker	C, 9495, 09/20/95	<i>Tarachidia candefacta</i> (Hübner)
C, 10446, 09/20/95	<i>Papaipema impecuniosa</i> (Grote)	C, 9090, 09/20/95
<i>Leucania ursula</i> (Forbes)	C, 9473, 10/05/95	<i>Tarachidia erastrionides</i> (Guenée)
C, 10461, 08/30/95	<i>Papaipema lysamachiae</i> Bird	C, 9095, 07/12 - 10/05/95
<i>Leuconycta diphtheroides</i> (Guenée)	U, 9479, 10/23/95	<i>Tetanolita floridana</i> (Smith)
C, 9065, 05/07 - 07/27/95	<i>Papaipema nebris</i> (Guenée)	C, 8368, 09/20 - 10/10/95
<i>Lithacodia albidula</i> (Guenée)	A, 9496, 08/23 - 10/23/95	<i>Thioptera nigrofimbria</i> (Guenée)
A, 9048, 07/12 - 08/30/95	<i>Papaipema necopina</i> (Grote)	C, 9044, 08/30 - 10/10/95
<i>Lithacodia muscosa</i> (Guenée)	C, 9497, 08/30 - 09/20/95	<i>Trachea delicata</i> (Grote)
C, 9047, 06/21/95	<i>Papaipema rigida</i> (Grote)	LA, 9626, 05/07 - 10/23/95
<i>Lithacodia synochitis</i> (Guenée)	C, 9503, 09/20/95	<i>Xestia badimodis</i> (Grote)
C, 9049, 05/07/95	<i>Papaipema rutila</i> (Guenée)	C, 10955, 09/27/95
<i>Lithophane bethunei</i> (Grote & Robinson)	C, 9484, 08/30 - 10/23/95	<i>Xestia bicarnea</i> (Guenée)
C, 9887, 04/19/95	<i>Papaipema unimoda</i> (Smith)	C, 10950, 08/30/95
<i>Lithophane innominata</i> (Smith)	C, 9509, 09/20/95	<i>Xestia dolosa</i> Franclemont
C, 9888, 09/20/95	<i>Parallelia bistriaris</i> Hübner	A, 10942.1, 06/25 - 10/23/95
<i>Lithophane unimoda</i> (Lintner)	C, 8727, 06/21 - 10/23/95	<i>Xestia normaniana</i> (Grote)
C, 9916, 04/19/95	<i>Peridroma saucia</i> (Hübner)	C, 10943, 08/30 - 10/23/95
<i>Luperina passer</i> (Guenée)	C, 10915, 07/12 - 09/20/95	<i>Xestia smithii</i> (Snellen)
C, 9391, 05/07 - 10/23/95	<i>Perigea xanthioides</i> Guenée	A, 10944, 08/30 - 10/23/95
<i>Macrochilo absorptalis</i> Walker	C, 9689, 05/07 - 08/30/95	<i>Xestia tenuicula</i> (Morrison)
C, 8357, 07/12 - 07/19/95	<i>Phalaenophana pyramusalis</i> (Walker)	C, 10951, 08/23 - 10/23/95
<i>Maliattha synochitis</i> (Grote & Robinson)	C, 8338, 05/07 - 05/24/95	<i>Zale galbanata</i> (Morrison)
C, 9055.1, 07/19 - 08/30/95	<i>Phalaenostola larentioides</i> Grote	C, 8692, 05/24/95
<i>Melanchra adjuncta</i> (Guenée)	C, 8364, 07/12 - 08/30/95	<i>Zale lunata</i> (Drury)
C, 10292, 07/27/95	<i>Phlogophora periculosa</i> Guenée	A, 8689, 07/27/95
<i>Melanchra picta</i> (Harris)	C, 9547, 08/30/95	<i>Zale minerea</i> (Guenée)
C, 10293, 06/21/95	<i>Plagiomimicus pityochromus</i> Grote	A, 8697, 07/12/95
<i>Metalectra discalis</i> (Grote)	U, 9754, 08/09/95	<i>Zanclognatha jaccusalis</i> (Walker)
C, 8499, 05/24/95	<i>Plathypena scabra</i> (F.)	C, 8352, 08/30 - 10/23/95
<i>Metaxaglaea inulta</i> (Grote)	C, 8465, 08/23 - 10/23/95	<i>Zanclognatha pedipilalis</i> (Guenée)
C, 9943, 10/05 - 10/16/95	<i>Plusia contexta</i> Grote	C, 8348, 06/21/95
<i>Morrisonia confusa</i> (Hübner)	A, 8952, 05/07 - 10/23/95	
C, 10521, 05/17 - 05/31/95	<i>Protolampra brunneicollis</i> (Grote)	NOTODONTIDAE
<i>Nedra ramosula</i> (Guenée)	C, 11006, 09/20/95	<i>Clostera apicalis</i> (Walker)
C, 9582, 05/24 - 09/20/95	<i>Psaphida rolandi</i> (Grote)	C, 7901, 05/31 - 07/27/95
<i>Nephelodes minians</i> Guenée	U, 10014, 04/19/95	<i>Datana angustis</i> Grote & Robinson
A, 10524, 08/30 - 10/23/95	<i>Pseudaletia unipuncta</i> (Haworth)	C, 7903, 06/21 - 07/27/95
<i>Nola triquetra</i> (Fitch)	A, 10438, 04/19 - 10/23/95	<i>Datana integerrima</i> Grote & Robinson
C, 8992, 07/19/95	<i>Pseudeustrotia carneola</i> (Guenée)	C, 7907, 06/21 - 07/27/95
<i>Ochropleura plecta</i> (L.)	C, 9053, 05/07 - 10/23/95	<i>Furcula borealis</i> (Guérin-Méneville)
A, 10891, 05/07 - 10/23/95	<i>Pseudoplusia includens</i> (Walker)	C, 7936, 05/17 - 07/27/95
<i>Ogdoconta cinereola</i> (Guenée)	C, 8890, 10/23/95	<i>Furcula cinerea</i> (Walker)
C, 9720, 05/07 - 10/23/95	<i>Pseudorthodes vecors</i> (Guenée)	C, 7937, 05/17 - 07/19/95
<i>Orthodes crenulata</i> (Butler)	C, 10578, 05/24 - 08/09/95	<i>Gluphisia septentrionis</i> Walker
C, 10585, 05/24 - 08/30/95	<i>Rachiplusia ou</i> (Guenée)	C, 7931, 05/07 - 08/09/95
<i>Orthodes cynica</i> Guenée	C, 8895, 06/28/95	<i>Heterocampa biundata</i> Walker
C, 10587, 05/07 - 06/21/95	<i>Rivula propinqualis</i> Guenée	C, 7995, 05/07 - 05/31/95
<i>Orthosia hibisci</i> (Guenée)	C, 8404, 08/23 - 10/23/95	<i>Heterocampa guttivitta</i> (Walker)
A, 10495, 04/19/95	<i>Schinia arcigera</i> (Guenée)	C, 7994, 05/31 - 07/27/95
<i>Orthosia rubescens</i> (Walker)	C, 11128, 08/30 - 09/20/95	<i>Heterocampa obliqua</i> Packard
C, 10487, 04/19/95	<i>Schinia florida</i> (Guenée)	C, 7983, 07/12 - 07/27/95
<i>Palthis angulalis</i> (Hübner)	U, 11164, 07/27/95	<i>Macrurocampa marthesia</i> (Cramer)
C, 8397, 05/07 - 10/23/95	<i>Scoliopteryx libatrix</i> (L.)	C, 7975, 07/12/95
<i>Palthis asopialis</i> (Guenée)	C, 8555, 09/20/95	<i>Nadata gibbosa</i> (J. E. Smith)
C, 8398, 05/07 - 10/16/95	<i>Simyra henrici</i> (Grote)	C, 7915, 05/07 - 08/09/95
<i>Papaipema arctivorens</i> Hampson	C, 9280, 05/24 - 10/23/95	<i>Nerice bidentata</i> Walker
C, 9471, 08/23 - 10/23/95	<i>Spaelotis clandestina</i> (Harris)	C, 7929, 05/17/95
<i>Papaipema baptisiae</i> (Bird)	C, 10926, 06/25 - 09/20/95	<i>Oligocentria lignicolor</i> (Walker)
C, 9485, 08/30 - 09/20/95	<i>Spodoptera frugiperda</i> (J. E. Smith)	C, 8017, 07/27/95
<i>Papaipema cataphracta</i> (Grote)	A, 9666, 08/23 - 10/23/95	<i>Peridea basitriens</i> (Walker)
C, 9466, 10/05 - 10/23/95	<i>Spodoptera ornithogalli</i> (Guenée)	C, 7919, 06/21 - 07/27/95
<i>Papaipema cerussata</i> (Grote)	C, 9669, 09/20/95	<i>Pheosia ramosa</i> Packard
C, 9505, 09/20 - 10/23/95	<i>Stiriodes obtusa</i> (Herrich-Schäffer)	C, 7922, 07/27/95

TABLE 1 *Continued*

<i>Schizura ipomoeae</i> Doubleday C, 8005, 07/12 - 07/27/95	<i>Palpita magniferalis</i> (Walker) C, 5226, 05/07/95	<i>Smerinthus jamaicensis</i> (Drury) C, 7821, 05/07 - 08/09/95
<i>Schizura leptinoides</i> (Grote) C, 8011, 07/19/95	<i>Plodia interpunctella</i> (Hübner) U, 6019, 05/07/95	THYATIRIDAE
<i>Schizura unicornis</i> (J. E. Smith) C, 8007, 05/24 - 09/20/95	<i>Pyrallis disciferalis</i> Dyar C, 5512, 10/23/95	<i>Pseudothyatira cymatophoroides</i> (Guenée) C, 6237, 05/07/95
<i>Symmerista albifrons</i> (J. E. Smith) C, 7951, 05/24 - 07/27/95	<i>Pyrallis farinalis</i> L. C, 5510, 05/07/95	TINEIDAE
OECOPHORIDAE	<i>Pyrausta bicoloralis</i> (Guenée) C, 5040, 08/30 - 10/23/95	<i>Acrolophus popeanella</i> (Clemens) C, 373, 07/12/95
<i>Antaeotricha leucillana</i> (Zeller) C, 1014, 05/24/95	<i>Pyrausta niveicillialis</i> (Grote) C, 5073, 08/30/95	TORTRICIDAE
<i>Machimia tentoriferella</i> Clemens C, 951, 09/20 - 10/23/95	<i>Udea rubigalis</i> (Guenée) A, 5079, 05/07 - 10/16/95	<i>Ancylis burgessiana</i> (Zeller) C, 3367, 10/23/95
<i>Semioscopis packardella</i> (Clemens) C, 912, 05/07/95	SATURNIIDAE	<i>Argyrotaenia mariana</i> (Fernald) C, 3625, 05/07/95
PYRALIDAE	<i>Actias luna</i> (L.) C, 7758, 07/12/95	<i>Argyrotaenia quercifolia</i> (Fitch) C, 3623, 06/21/95
<i>Aglossa caprealis</i> (Hübner) C, 5517, 07/19/95	<i>Antiberaea polypheumus</i> (Cramer) C, 7757, 07/05 - 07/19/95	<i>Choristoneura fractivittana</i> (Clemens) C, 3632, 05/07/95
<i>Crociodophora serratissimalis</i> Zeller C, 4944, 05/07 - 10/23/95	<i>Automeris io</i> (F.) C, 7746, 06/21/95	<i>Choristoneura rosaceana</i> (Harris) C, 3635, 08/09 - 10/05/95
<i>Desmia funeralis</i> (Hübner) C, 5159, 05/24 - 08/30/95	<i>Dryocampa rubicunda</i> (F.) C, 7715, 07/05/95	<i>Clepsia melaleucana</i> (Walker) C, 3686, 05/31/95
<i>Evergestis pallidata</i> (Hufnagel) C, 4897, 05/07/95	<i>Eacles imperialis</i> (Drury) C, 7704, 07/12 - 07/19/95	<i>Olethreutes bipartitana</i> (Clemens) C, 2848, 05/07/95
<i>Galleria mellonella</i> (L.) C, 5622, 09/20/95	<i>Hyalophora cecropia</i> (L.) C, 7767, 06/21 - 06/25/95	<i>Olethreutes permundana</i> (Clemens) C, 2817, 06/21/95
<i>Herpetogramma aeglealis</i> (Walker) C, 5280, 08/09/95	<i>Sphingicampa bicolor</i> (Harris) C, 7709, 05/07 - 07/27/95	<i>Pandemis limitata</i> (Robinson) C, 3594, 06/21/95
<i>Herpetogramma pertextalis</i> (Lederer) C, 5275, 07/27 - 08/23/95	SPHINGIDAE	<i>Xenotemna pallorana</i> (Robinson) C, 3693, 10/05 - 10/16/95
<i>Hypsopygia costalis</i> (F.) A, 5524, 05/07 - 10/23/95	<i>Ceratomia catalpae</i> (Boisduval) C, 7789, 08/30 - 10/23/95	YPONOMEUTIDAE
<i>Nomophila nearctica</i> Monroe C, 5156, 07/27 - 10/23/95	<i>Darapsa myron</i> (Cramer) C, 7785, 06/21/95	<i>Atteva punctella</i> (Cramer) C, 2401, 05/24 - 09/20/95
<i>Ostrinia nubilalis</i> (Hübner) A, 4949, 05/07 - 10/23/95	<i>Paonias excaecatus</i> (J. E. Smith) C, 7824, 07/12 - 07/27/95	ZYGAENIDAE
<i>Ostrinia obumbratalis</i> (Lederer) C, 4947, 05/07 - 07/12/95	<i>Paonias myops</i> (J. E. Smith) A, 7825, 05/07 - 08/09/95	<i>Harrisina americana</i> (Guérin) U, 4624, 06/21/95

¹A = abundant; LA = locally abundant; C = common; LC = locally common; U = uncommon; R = rare; and SI = Special Interest

date(s). MONA numbers represent the phylogenetic relationships between species of Lepidoptera, the most primitive species have the lowest numbers and the most highly specialized species have the highest numbers. The numerical system also enables all museum curators to arrange their collections by MONA number and facilitates species recovery (Hodges 1971).

The one rare, special interest species is *Enargia decolor* (Walker). Rings et al. (1992) also lists this species as "Rare, Special Interest." This species was previously known in Ohio only from five specimens from Ashland, Geauga, and Ashtabula counties. In North America, this species ranges from Nova Scotia and well northward into Canada to British Columbia, south to New York and Colorado. Host plants are cottonwood, trembling aspen, white birch, balsam poplar, large-toothed aspen, speckled alder, and willow.

Only four of the moth species collected are considered as wetland species. They are: *Simyra henrici*

(Grote), *Homophoberia cristata* Morrison, *Bellura oblique* (Walker), and *Bellura densa* (Walker). Most of the other species are grass feeders or upland species which fly considerable distances. These upland species fly throughout the night and eventually arrive at the region of influence of the black-light trap (about 100 yards) and are captured.

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VIDEO INFORMATION

Accompanying this report is a video production which briefly describes the Funk Bottoms Wildlife Area. It is available on loan from the Wayne County Public Library and for loan or purchase from The Ohio State University, Extension Publications, 385 Kottman Hall, 2021 Coffey Road, Columbus, OH 43210 (Tel. 614/292-1607).

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